

Models of Movement p 197 text

d-t graphs

$v = \frac{\Delta d}{\Delta t}$ (change in displacement)
(change in time)

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• in a linear relationship the velocity is constant

• nonlinear relationship the velocity changes with time

p 200-203

2-5 758

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plateau

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Finite Difference Table

Linear vs Nonlinear

x	y	Δy ($y_i - y_{i-1}$)
1	2	
2	4	2
3	6	2
4	8	2
5	10	2

finite differences are the same therefore the relationship is linear

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x	y	Δy
1	1	
2	4	4-1=3
3	9	9-4=5
4	16	16-9=7
5	25	25-16=9

first differences are different therefore Nonlinear

p 199 - match to graph

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